



Roland

HP-137

Roland Digital Piano

 CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN		
ATTENTION: RISQUE DE CHOC ÉLECTRIQUE NE PAS OUVRIR		
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS.

IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS

WARNING - When using electric products, basic precautions should always be followed, including the following:

1. Read all the instructions before using the product.
2. Do not use this product near water — for example, near a bathtub, washbowl, kitchen sink, in a wet basement, or near a swimming pool, or the like.
3. This product should be used only with a cart or stand that is recommended by the manufacturer.
4. This product, either alone or in combination with an amplifier and headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.
5. The product should be located so that its location or position does not interfere with its proper ventilation.
6. The product should be located away from heat sources such as radiators, heat registers, or other products that produce heat.
7. The product should be connected to a power supply only of the type described in the operating instructions or as marked on the product.
8. The power-supply cord of the product should be unplugged from the outlet when left unused for a long period of time.
9. Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
10. The product should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled onto the product; or
 - C. The product has been exposed to rain; or
 - D. The product does not appear to operate normally or exhibits a marked change in performance; or
 - E. The product has been dropped, or the enclosure damaged.
11. Do not attempt to service the product beyond that described in the user-maintenance instructions. All other servicing should be referred to qualified service personnel.

For the USA

This product may be equipped with a polarized line plug (one blade wider than the other). This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician to replace your obsolete outlet. Do not defeat the safety purpose of the plug.

For Canada

For Polarized Line Plug

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION: POUR ÉVITER LES CHOCs ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU' AU FOND.

For the U.K.

IMPORTANT: THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE.

BLUE: NEUTRAL
BROWN: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.
The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

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Roland

HP 137

Roland Digital Piano

Owner's Manual

Thank you for purchasing a Roland HP-137 Digital Piano. The HP-137 is the new entry-level model of Roland's HP series Digital Pianos. As such, it comes with all the benefits: a weighted Hammer-Action keyboard, vibrant sounds and a number of useful functions.

Authentic piano performances

High-quality concert grand piano sounds, and a keyboard that's a true pleasure to play assure an even more realistic piano-playing experience. Thanks to its Hammer-Action keyboard, the HP-137 faithfully reproduces the feel of an acoustic piano with minute control over the sound.

Captures the brilliant resonance

The sound of a grand piano has a brilliant timbre because the sound of a grand piano contains a greater amount of high-frequency components. The HP-137 reproduces this characteristic of the grand piano.

Extended high-frequency response

One of the features of an acoustic piano is that for the strings of the highest 1 1/2 octaves, there is no damper to restrict the vibration of the strings, irrespective of whether or not the damper pedal is used. Since this also allows these strings to vibrate sympathetically with other strings, they can sometimes be heard sounding independently from the low and middle-register strings.

The HP-137 faithfully simulates these characteristics of the acoustic piano (being a digital instrument, the HP-137 contains no strings).

Four Tones for a wide variety of musical genres

The HP-137 comes with four sounds (called "Tones"). That way, you can also use your instrument for playing harpsichord, organ, and pop/jazz music.

Before using this instrument, carefully read the sections on pages 2 and 4. They provide important information concerning the proper operation of the HP-137.

To get the most out of the HP-137 and to ensure many years of trouble-free service, we urge you to read through this Owner's Manual thoroughly.

To avoid confusion, let's agree to use the word "button" for all keys on the front panel, and only use "key" when referring to the HP-137's keyboard.

Contents

1. Getting Ready	5	3.3 Setting the key touch	11
1.1 Connecting the power cord	5	3.4 Selecting the function of the left pedal	12
1.2 About the pedals	5	4. Connecting to MIDI devices	13
1.3 Turning the power on and off	5	4.1 Setting the MIDI channel	15
1.4 Adjusting the volume	5	5. Appendix	15
1.5 Connecting headphones (sold separately)	6	5.1 Troubleshooting	15
1.6 Listening to the demo songs	6	5.1 Functions assigned to the keyboard	16
2. Playing your own music	8	6. Specifications	16
2.1 Selecting sounds	8		
2.2 Adding Reverb	8		
3. Convenient functions	10		
3.1 Transposing (same fingering, different notes)	10		
3.2 Master Tuning	10		

Important notes

In addition to the items listed under "USING THE UNIT SAFELY" on page 2, please read and observe the following:

Power Supply

- Do not use this unit on the same power circuit with any device that will generate line noise (such as an electric motor or variable lighting system).
- Before connecting this unit to other devices, turn off the power to all units. This will help prevent malfunctions and/or damage to speakers or other devices.

Placement

- Using the unit near power amplifiers (or other equipment containing large power transformers) may induce hum. To alleviate the problem, change the orientation of this unit; or move it farther away from the source of interference.
- This device may interfere with radio and television reception. Do not use this instrument in the vicinity of such receivers.
- Do not expose the unit to direct sunlight, place it near devices that radiate heat, leave it inside an enclosed vehicle, or otherwise subject it to temperature extremes. Excessive heat can deform or discolor the unit.
- To avoid possible breakdown, do not use the unit in a wet area, such as an area exposed to rain or other moisture.

Maintenance

- For everyday cleaning wipe the unit with a soft, dry cloth or one that has been slightly dampened with water. To remove stubborn dirt, use a cloth impregnated with a mild, non-abrasive detergent. Afterwards, be sure to wipe the unit thoroughly with a soft, dry cloth.

- Never use benzine, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

Additional Precautions

- Use a reasonable amount of care when handling the instrument and when using its jacks and connectors. Rough handling can lead to malfunctions.
- When connecting / disconnecting all cables, grasp the connector itself — never pull on the cable. This way you will avoid causing shorts, or damage to the cable's internal elements.
- To avoid disturbing your neighbors, try to keep the unit's volume at reasonable levels. You may prefer to use headphones, so you do not need to be concerned about those around you (especially when it is late at night).
- Be sure to put the HP-137 in the original cardboard box when you need to move it. Otherwise, use equivalent packaging materials.
- If using some other make of connection cable, please note the following precautions.
- Some connection cables contain resistors. Do not use cables that incorporate resistors for connecting to this unit. The use of such cables can cause the sound level to be extremely low, or impossible to hear. For information on cable specifications, contact the manufacturer of the cable.

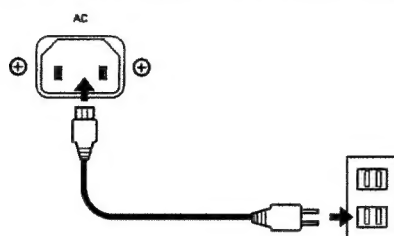
All product names mentioned in this document are trademarks or registered trademarks of their respective owners.

1. Getting Ready

Note: To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.

1.1 Connecting the power cord

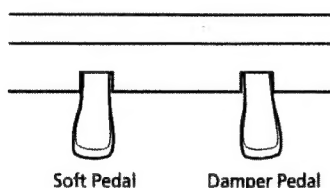
Connect the supplied power cord to a wall outlet.



Note: Strong tension applied to the cord may cause it to be damaged or broken. Be careful not to pull the cord accidentally, or to apply strong pressure to it.

1.2 About the pedals

The HP-137 comes with two pedals that are built into the supplied stand:



Soft pedal—This pedal softens the sound. Playing with the soft pedal depressed produces a sound that is not as strong as when played with the equivalent strength. This is the same function as the left-most pedal on an acoustic piano.

Damper pedal—Use this pedal when you want the sound to linger on. While the damper pedal is depressed, the sound from the keyboard continues to linger for an extended period, even when you remove your fingers from the keys.

This is the same function as the right-most pedal on an acoustic piano.

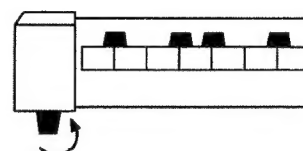
Note: You can change the left pedal's function. See page 12.

1.3 Turning the power on and off

Your HP-137 is fitted with an amplifier and speakers so that you do not need additional devices.

1. Turn the volume all the way down.

The volume control is located to the left and below the keyboard. Turn it to the right to decrease the volume.



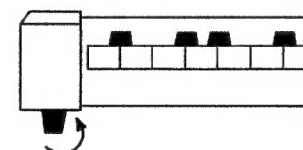
2. Press the power switch, to turn on the power.

The power switch is located below the left side of the keyboard.

Note: Your HP-137 is equipped with a protection circuit. A brief interval (a few seconds) after power up is required before it will operate normally.

Turning off the power

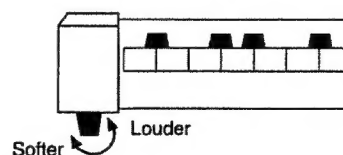
1. Turn the volume all the way down.



2. Press the power switch to turn off the power.

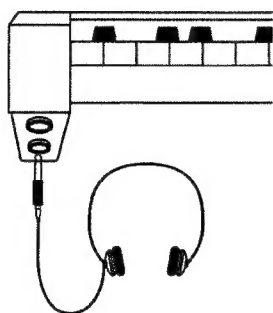
1.4 Adjusting the volume

Use the volume knob to adjust the volume.



1.5 Connecting headphones (sold separately)

The HP-137 features two headphone jacks. This allows two people to listen through headphones simultaneously, making it very useful for lessons and when performing piano pieces for four hands. Additionally, this allows you to play without having to worry about bothering others around you, even at night.



1. Turn the volume all the way down.
 2. Connect the headphones to either of the headphone jacks.
 3. Adjust the volume.
- By connecting headphones to the HP-137, you switch off its speakers, which is ideal for playing or practising without disturbing others.

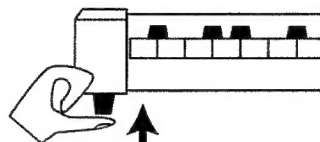
Note: Be sure to use stereo headphones.

1.6 Listening to the demo songs

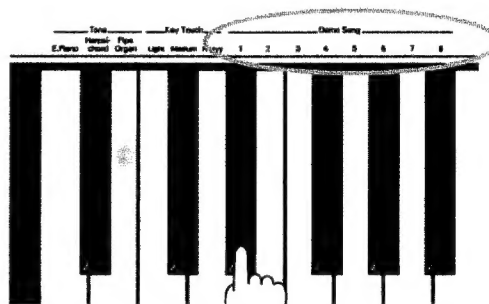
The HP-137 features eight internal piano songs you may want to listen to before starting to play yourself.

Playing/stopping the demo songs

1. Press and hold the volume button.



2. While still holding the volume button, press one of the keys labeled "Demo Song" to select the corresponding demo song and to start playback of that song.



The demo songs will play back consecutively, starting with the song you selected. When the last song has been played, playback will return to the first song and resume.

3. To stop demo song playback, press the volume button and release it.

The demo song playback will stop.

About the demo songs

- | | |
|---|--|
| 1 | Intro
I. Maul ©1991, 1999 Roland UK |
| 2 | Bagatelle "Für Elise" WoO.59
L.v. Beethoven ©1994 Roland Corporation |
| 3 | A Maiden's Prayer
T. Badarzewska ©1996 Roland Corporation |
| 4 | No.14 "La Styrienne" from 25 Etudes
F. Burgmüller ©1992 Roland Corporation |
| 5 | from Cantata BWV.147
J.S. Bach / Naoki Nishi ©1993 Roland Corporation |
| 6 | Etude No.3 in E Major "Chanson de l'adieu"
F. Chopin ©1992 Roland Corporation |
| 7 | Fly Free
I. Maul ©1992 Roland Corporation |
| 8 | Mood / Ending
J. Maul ©1991, 1999 Roland UK |

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Note: The data of the demo songs are not transmitted to the HP-137's MIDI OUTput.

Profiles of the composers

Naoki Nishi—Born in 1958 in Hiroshima, Japan. Began working professionally at the age of 21. Has so far released 9 albums. He has also taken part in numerous other albums. His broad range of activities have included appearances at a number of jazz festivals in Japan and other parts of the world. In addition to his duties as an instructor at the Tokyo Conservatoire Shoubi, he has provided his services as a demonstrator for Roland since 1990. He is considered to be one of Japan's finest jazz pianist.

John Maul—John Maul is a musician, composer and arranger having graduated from the Royal Academy of Music in London. John's work encompasses studio recordings and live performances, including work with top UK Jazz artists. His writing credits include commercial music for BBC radio and television, as well as scoring jazz and classical works. Having been a product specialist for Roland U.K., John is now actively involved in music software composing/programming for both Roland Japan and various music publishers. Quite recently his "Musical Picture Book", a volume of original piano music encompassing all standards of musical ability, which included the piano and orchestral accompaniment data in SMF format, was published and printed.

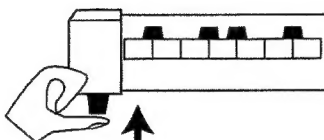
2. Playing your own music

2.1 Selecting sounds

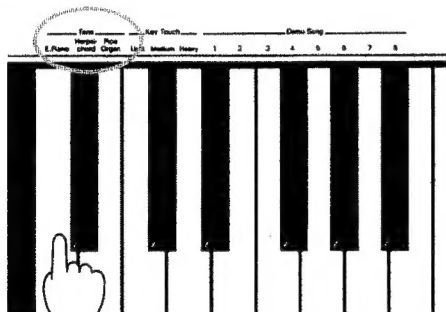
The HP-137 allows you to play using four different sounds including piano. The HP-137's sounds are called "Tones".

Use the three keys to the far left to select another sound than the stereo piano sound that is selected when you switch on the HP-137.

1. Press and hold the volume button.



2. While still holding the volume button, press one of the keys labeled "Tone" to select the corresponding sound.



E. Piano: electric piano sound
Harpsichord: harpsichord sound
Pipe Organ: pipe organ sound

3. To return to the stereo piano sound after selecting one of the above, hold down the volume button while press the key of the last Tone you selected.

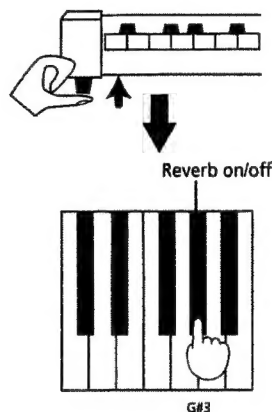
2.2 Adding Reverb

The HP-137 allows you to add reverberation to what you play on the keyboard. The Reverb effect provides a pleasant reverberation that gives the impression that you are performing in a concert hall or similar space.

Switching the Reverb effect off (and on)

At power-on, the Reverb effect is already switched on. If you do not need this effect, you need to switch it off:

1. Press and hold the volume button.
2. While still holding the volume button, press the G#3 key.



Note: Refer to "Functions assigned to the keyboard" on page 16 for the exact location of the keys you need to press.

3. Repeat the above to switch the Reverb back on again.

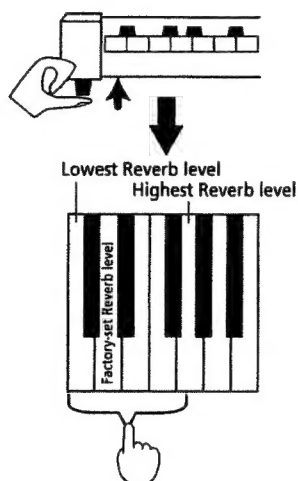
Note: The Reverb will also be activated next time you power up the HP-137.

Setting the Reverb level

You can also set the volume of the Reverb effect to accommodate the sound your are using. You may want to select a higher Reverb for the Pipe Organ sound (to simulate the reverberations of a church) than for the piano sound.

There are eight possible Reverb level settings. At power-on, the HP-137 selects level "3".

1. Press and hold the volume button.
2. While still holding the volume button, press a key between the C3 and the G3 to set the desired Reverb level.



Note: Refer to "Functions assigned to the keyboard" on page 16 for the exact location of the keys you need to press.

3. Convenient functions

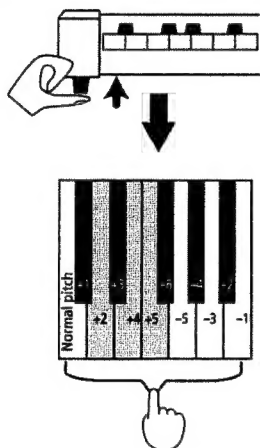
3.1 Transposing (same fingering, different notes)

You can play in a different key—without changing the keys you are playing. That way, even songs originally written in a difficult key with many sharps or flats (i.e. with many black keys), can be played in a more convenient way. This is especially useful when you are used to playing a given song in one key, while someone else wants you to play it in another key: just change the Transpose setting and you're there.

The transposition remains in effect until you change it or until you switch off the HP-137.

[Ex.] Playing in C and sounding in E

1. Press and hold the volume button.
2. While still holding the volume button, use the C2~B2 notes to select the key. (For our example, press the second "E" from the left.)



Gray= higher / White= lower

Note: Refer to "Functions assigned to the keyboard" on page 16 for the exact keys to press.

3. To return to the previous condition, hold down the volume button while pressing the C2 key.

Note: The transposition only applies to the notes you play on the HP-137's keyboard. It does not apply to note messages received via the MIDI IN connector.

3.2 Master Tuning

In situations such as when playing in ensemble with other instruments, you can adjust the HP-137's reference pitch to that of another instrument.

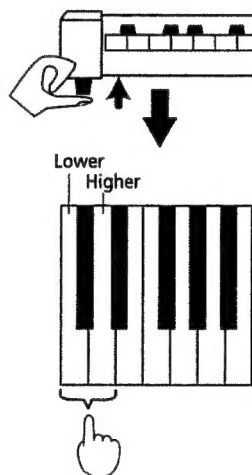
Middle A ("A4") is generally used for tuning instruments. When playing in ensemble with other instruments, tune each instrument to the same reference pitch.

"440Hz" is the power-on default for the reference pitch.

Lowering/ raising the reference pitch

1. Press and hold the volume button.
2. While still holding the volume button, press the "C4" note to lower the reference pitch, or the "D4" note to raise it.

Note: Refer to "Functions assigned to the keyboard" on page 16 for the exact location of the keys you need to press.

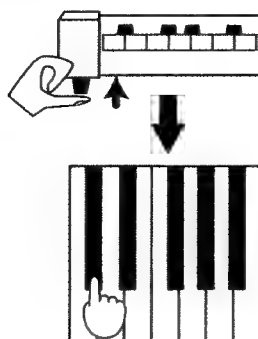


Each time you press the "C4" key, the pitch will fall by 0.1 Hz. If you continue holding the key, the pitch will continue falling.

Each time you press the "D4" key, the pitch will rise by 0.1 Hz. If you continue holding the key, the pitch will continue rising.

Returning to 440Hz

While holding down the volume button, press the "C#4" key on the keyboard.



Press to return to 440Hz

The reference pitch will be set to 440.0 Hz. This is the most commonly used setting.

Note: Refer to "Functions assigned to the keyboard" on page 16 for the exact location of the keys you need to press.

Setting the reference pitch to 442Hz straight away

While holding down the volume button, press the "D#4" key on the keyboard.

This is the black key to the right of the one shown in the above illustration.

Note: Refer to "Functions assigned to the keyboard" on page 16 for the exact location of the keys you need to press.

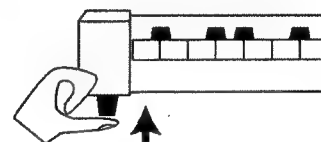
The standard pitch will be set to 442Hz. This setting is often used for concert pianos. The A4 (Middle A) key will sound at 442Hz.

3.3 Setting the key touch

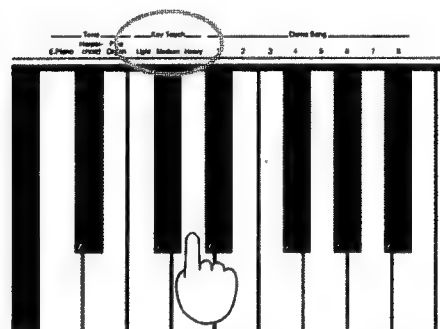
Your HP-137 also provides a function that allows you to adapt it to your playing style, or to ensure that even your children can play loud notes.

There are three Key Touch levels:

1. Press and hold the volume button.



2. While still holding the volume button, press one of the keys labeled "Key Touch" to select the desired level.



Note: Refer to "Functions assigned to the keyboard" on page 16 for the exact location of the keys you need to press.

Note: Though "Light" may be a good settings for beginners, they should also try to get used to playing with the "Medium" setting.

Light: little strength is required to play at high volumes.

Medium: the keyboard reacts normally (similar to an acoustic piano).

Heavy: choose this only if you usually strike with too much force and therefore play very bright/loud notes. This is also a good setting for practising purposes.

Note: At power-on, the HP-137 selects the "Medium" setting.

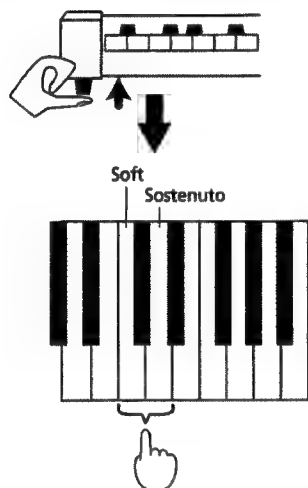
3.4 Selecting the function of the left pedal

Grand pianos (and upmarket-models of the Roland HP series) have three pedals instead of two. This means that, in addition to the Damper and Soft pedals mentioned on page 5, there is also a Sostenuto pedal.

On the HP-137, you can assign this function to the left pedal, which means that the Soft function is no longer available.

Sostenuto pedal—If you select this function, the left pedal allows you to sustain the notes you played at the time when you pressed the pedal. Subsequently played notes, however, will not be held.

1. Press and hold the volume button.
2. While still holding the volume button, press the D7 key to select the Sostenuto function.



3. To once again select the Soft function:
- Either hold the volume button and press the C7 key;
 - Or switch the HP-137 off and back on again.

Note: Refer to "Functions assigned to the keyboard" on page 16 for the exact location of the keys you need to press.

4. Connecting to MIDI devices

Read this chapter if you wish to connect the HP-137 to an external MIDI devices.

If the HP-137 is connected to a MIDI sequencer, such as one from the MT series, you can record your playing or have the external module, synthesizer, etc., reproduce the notes you play on the HP-137's keyboard. When the HP-137 is connected to an MT series sequencer, the rich variety of sounds built into the MT can be played from the keyboard of the HP-137.

About MIDI

MIDI, short for "Musical Instrument Digital Interface," was developed as a standard for the exchange of performance data between electronic instruments and computers.

The HP-137 is equipped with MIDI connectors to allow such exchange of performance data with external equipment and devices.

About the MIDI connectors

MIDI In connector—Use a MIDI cable (sold separately) to connect from here to the MIDI Out connector on the external MIDI device.

MIDI messages sent from connected external equipment will be received here. As a result, the HP-137 will produce sound, change tones, or perform other operations.

MIDI Out connector—Use a MIDI cable (sold separately) to connect from here to the MIDI In connector on the external MIDI device. Performance data detailing what has been played on the keyboard, and other data, such as that generated when a pedal is depressed, is sent out from here to external MIDI devices.

Making the connections

Note: To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.

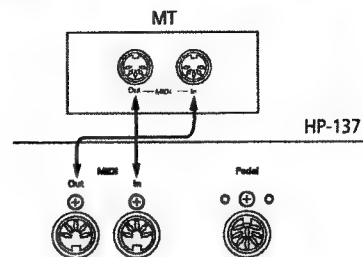
1. Turn the volume down completely on all equipment.
2. Turn off the HP-137 and any other devices to be connected.
3. Use MIDI cable (sold separately) to connect the external MIDI device to the MIDI connector on the HP-137.

Take a look at the connection examples below.

4. You should also make the settings below as needed. For details on making MIDI-related settings for the HP-137, refer to "Cautions when connecting an external MIDI device".

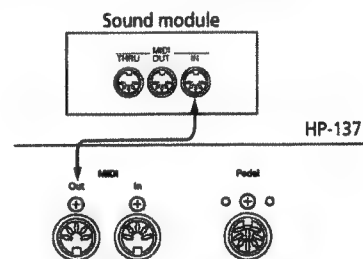
5. Turn on the power to all equipment.
6. Adjust the volume.

Connecting to a sequencer (Roland MT series)



Note: The MT-80s has no MIDI Out connector.

Connecting to a MIDI sound module

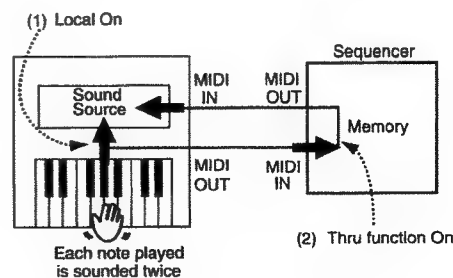


Cautions when connecting an external MIDI device

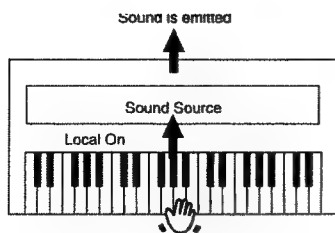
Here we will explain the "Local On/Off" and "Omni On/Off" settings that you need to be aware of when connecting the HP-137 to an external MIDI device.

Disconnecting the HP-137's keyboard and internal sound generator—Local On/Off

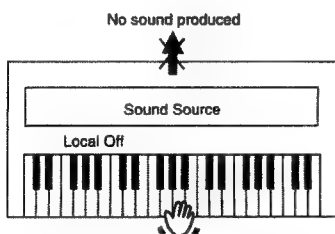
When the HP-137 is connected to a MIDI sequencer or the like, set it to Local Off. As shown in the diagram, the data that is produced when you play the keyboard will reach the sound generator by two routes, (1) and (2), causing each note to be played in duplicate. To prevent this, select the Local Off setting to cut route (1).



When Local is on:



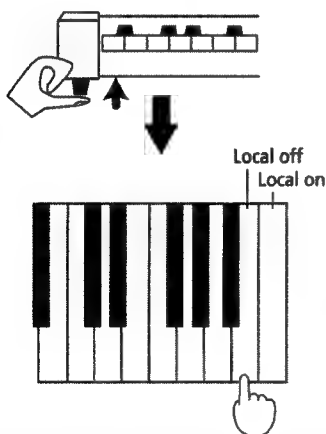
When Local is off:



Note: Be aware that if you set your instrument to Local Off when no external MIDI device is connected, there will be no sound.

Note: Local On is set when the power is switched on.

1. Press and hold the volume button.
2. While still holding the volume button, press the highest B key (second from the right) to set Local to off.



Note: Refer to "Functions assigned to the keyboard" on page 16 for the exact location of the keys you need to press.

If the HP-137 is connected to a Roland MT series (except MT-80S), it is not necessary to make the Local Off setting. When the power is turned on, the MT will transmit a Local Off message. If you first switch on the HP-137 and then the MT, the HP-137 will automatically be set to Local Off.

3. Repeat this procedure with the highest note to switch the Local function back on again.

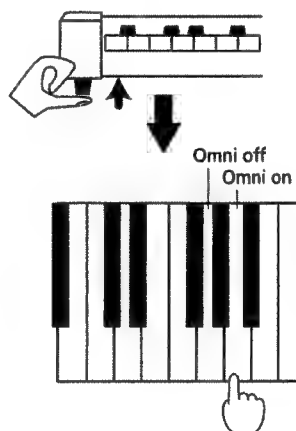
Receiving on all MIDI channels—Omni

MIDI features sixteen MIDI channels, numbered 1~16. The connected devices must be set to use the same MIDI channel as the HP-137, otherwise no sound will be produced.

When set to Omni On, the HP-137 receives on all MIDI channels, so that you do not need to set a specific one. This may be practical for playing back sequences containing piano music on different channels for the left and right hands. It should not be used, however for playing back commercial Standard MIDI Files as that will cause the HP-137 to produce so many notes that you hardly recognize the piece in question.

Omni Off is automatically set when the power is switched on.

1. Press and hold the volume button.
2. While still holding the volume button, press the highest A key (fourth from the right) to set Omni to on.



Note: Refer to "Functions assigned to the keyboard" on page 16 for the exact location of the keys you need to press.

3. Repeat this procedure with the highest G key to switch the Omni function back off again.

4.1 Setting the MIDI channel

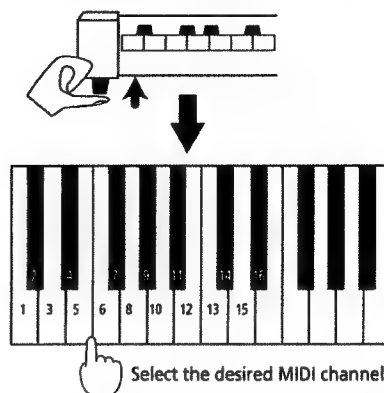
MIDI features sixteen MIDI channels, numbered 1~16. The connected devices must be set to use the same MIDI channel, otherwise no sound will be produced.

- In a setup where you wish to play the HP-137 and also have another MIDI-equipped instrument or sound module play the same notes, you must set the channel used for reception on your external device to the same channel that the HP-137 uses for transmission.
- If you use another MIDI keyboard as a master instrument and want the HP-137 to play these notes, you need to set the channel used for reception on the HP-137 to the same channel that the master keyboard is transmitting on.
- If you want to use the HP-137 as tone generator for an external sequencer, select the MIDI channel assigned to the track who's data the HP-137 should play back.

Note: When the HP-137 is turned on, Channel "1" is selected.

1. Press and hold the volume button.

2. While still holding the volume button, press the key corresponding to the desired MIDI channel (between the C5 and the D#6).



The MIDI transmit and receive channel will switch to the number that corresponds to the note you pressed.

Note: Refer to "Functions assigned to the keyboard" on page 16 for the exact location of the keys you need to press.

5. Appendix

5.1 Troubleshooting

If you are encountering problems with the HP-137, please read the section below before assuming that there is a malfunction.

The piano cannot be switched on

Is the power cord properly connected? (p. 5)

No sound is produced

Is the volume knob set to the minimum position? (p. 5)

Are headphones connected? (p. 6)

Is Local On/Off set to "Off"? (p. 13)

The pitch of the keyboard sounds incorrect

Is the Master Tuning setting correct? (p. 10)

Is the Transpose setting correct? (p. 10)

Bass notes sound wrong/buzzing or vibration occurs

If you can't hear the problem in the *headphones*:

When playing at high volumes, resonance may occur in the piano itself or in objects near the piano. At times, other objects in the room, such as fluorescent lights or glass doors, could start vibrating. This becomes more noticeable when sounding the lower frequencies at high volume. To minimize such unwanted resonance, please observe the following:

- Locate the instrument at least 10~15 cm away from the walls.

- Reduce the volume.
- Increase the distance from the object that is resonating.

If you can hear the problem in the *headphones*, there may be another reason. Please contact your dealer.

In the upper range, the sound changes abruptly beyond a certain key

On an acoustic piano, notes in the upper one and a half octaves of the keyboard continue to sound until they decay naturally, regardless of the damper pedal. There is a difference in the timbre as well. Roland pianos faithfully simulate such characteristics of the acoustic piano. On the HP-137, the range that is unaffected by the damper pedal will change depending on the Key Transpose setting.

When the HP-137 is connected to an external device

No sound is produced

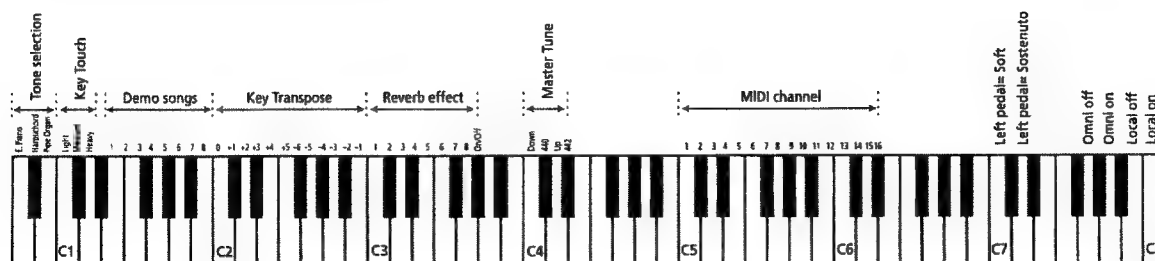
Is the power to all equipment turned on?

Are the connections between HP-137 and the MIDI sequencer or the other external devices correct? (p. 13)

Is the MIDI channel setting correct? (p. 15)

Is the Omni On/Off setting correct? (p. 14)

5.1 Functions assigned to the keyboard



6. Specifications

KEYBOARD

88 keys, hammer action

SOUND SOURCE

Max. polyphony: 64 voices

4 Tones (Stereo Piano, E.Piano, Harpsichord, Pipe Organ)

PANEL CONTROL

Volume control: under left endblock

FUNCTIONS (via keyboard)

Master Tuning: 415.3Hz~466.2Hz (0.1Hz steps)

Key Transpose: -6~+5 semitones

Reverb: on/off, 8 levels

Key Touch: Light, Medium, Heavy

PEDALS

Right pedal: Damper

Left pedal: Soft/Sostenuto (selectable)

OTHERS

Output power: 15W rms x 2

Speakers: 16cm x 2

Connectors: Pedal connector, headphone jack x 2 (stereo), MIDI In & MIDI Out connectors

POWER CONSUMPTION

60W (117V), 45W (230V, 240V)

DIMENSIONS

Piano: 1380(W) x 440 (D) x 175 (H) mm

Stand: 1390(W) x 390 (D) x 645 (H) mm

Total: 1390(W) x 440 (D) x 820 (H) mm

WEIGHT

Piano: 36 kg

Stand: 12.0 kg

Total: 48 kg

SUPPLIED ACCESSORIES

Owner's Manual, power cable

FINISH

ROLAND Rosewood

Note: In the interest of product improvement, the specifications and/or appearance of this instrument are subject to change without prior notice.

DIGITAL PIANO

Model HP-137

MIDI Implementation Chart

Date : October 1999

Version : 1.00

Function...		Transmitted	Recognized	Remarks
Basic Channel	Default Changed	1 1-16	1 1-16	
Mode	Default Messages Altered	Mode 3 x *****	Mode 3 OMNI ON/OFF	
Note		15-113	0-127	
Number :	True Voice	*****	15-113	
Velocity	Note ON Note OFF	O x 8n v=64	O x	
After Touch	Key's Ch's	x x	x x	
Pitch Bend		x	x	
Control Change	6, 38 7 11 64 66 67 91 93 100, 101	O x x O x O O O O	O O *1 O *1 O *1 O *1 O *1 O O O	Data entry Volume Expression Hold 1 Sostenuto Soft Effect1 depth (Reverb) Effect3 depth (Chorus) RPN LSB, MSB
Prog Change	: True #	O (0,3,5,7) *****	O (0-127) (0,3,5,7)	
System Exclusive		O	O	
System Common	: Song Pos : Song Sel : Tune	x x x	x x x	
System Real Time	: Clock : Commands	x x	x x	
Aux Message	: All sound off : Reset all controllers : Local Control : All Notes OFF : Active Sense : Reset	x x x x O x	x O O O (123-127) O x	
Notes		*1 These message can affect only MIDI notes.		

Mode 1 : OMNI ON, POLY

Mode 2 : OMNI ON, MONO

O : Yes

Mode 3 : OMNI OFF, POLY

Mode 4 : OMNI OFF, MONO

X : No

World Distributors

Information

When you need repair service, call your nearest Roland Service Center or authorized Roland distributor in your country as shown below.

AFRICA

EGYPT

Al Fanny Trading Office
P.O. Box 2904,
El Horreah Helopolis, Cairo,
EGYPT
TEL: (02) 4185531

REUNION

Maison FO - YAM Marcel
25 Rue Jules Merman ZL
Chaudron - BP79 97491
Ste Clotilde REUNION
TEL: 28 29 16

SOUTH AFRICA

That Other Music Shop (PTY) Ltd.
11 Melle Street (Cnr Melle and Jura Street)
Braamfontein 2001
Republic of SOUTH AFRICA
TEL: (011) 403 4105

Paul Bothner (PTY) Ltd.
17 Werdmuller Centre Claremont
7700
Republic of SOUTH AFRICA

P.O. Box 23032
Claremont, Cape Town
SOUTH AFRICA, 7735
TEL: (021) 64 4030

ASIA

CHINA

Beijing Xinghai Musical Instruments Co., Ltd.
6 Huangmuchiang Chao Yang District, Beijing, CHINA
TEL: (010) 6774 7491

HONG KONG

Tom Lee Music Co., Ltd. Service Division
22-32 Pun Shan Street, Tsuen Wan, New Territories,
HONG KONG
TEL: 2415 0911

INDIA

Rivera Digitec (India) Pvt. Ltd.
409, Nirman Kendra Mahalaxmi Flats Compound Off. Dr. Edwin Moses Road, Mumbai-400011,
INDIA
TEL: (022) 498 3079

INDONESIA

PT Citra Inti Rama
Jl. Cideng Timur No. 15J-150
Jakarta Pusat
INDONESIA
TEL: (021) 6324170

KOREA

Cosmos Corporation Service Station
261 2nd Floor Nak-Won Arcade
Jung-Ro ku, Seoul, KOREA
TEL: (02) 742 8844

MALAYSIA

Bentley Music SDN BHD
140 & 142, Jalan Bukit Bintang
55100 Kuala Lumpur, MALAYSIA
TEL: (03) 2443333

PHILIPPINES

G.A. Yungco & Co. Inc.
334 Gil J. Puyat Avenue
Makati, Metro Manila 1203,
PHILIPPINES
TEL: (02) 894 9801

SINGAPORE

Swee Lee Company
150 Sims Drive,
SINGAPORE 387381
TEL: 748-1669

CRISTOFORI MUSIC PTE LTD

Bldg 3014, Bedok Industrial Park E,
#02-2148, SINGAPORE 489980
TEL: 243 9555

TAIWAN

ROLAND TAIWAN ENTERPRISE CO., LTD.
Room 5, 9th No. 112 Chung Shan N. Road Sec. 2, Taipei, TAIWAN, R.O.C.
TEL: (02) 2561 3339

THAILAND

Theera Music Co., Ltd.
330 Veng Nakorn Kasem, Nri 2,
Bangkok 10100, THAILAND
TEL: (02) 2248821

VIETNAM

Saigon Music
138 Tran Quang Khai St.,
District 1,
Ho Chi Minh City
VIETNAM
TEL: (08) 844-4088

AUSTRALIA/NEW ZEALAND

AUSTRALIA

Roland Corporation Australia Pty., Ltd.
38 Campbell Avenue
Dee Why West, NSW 2099
AUSTRALIA
TEL: (02) 9982 8266

NEW ZEALAND

Roland Corporation (NZ) Ltd.
97 Mt. Eden Road, Mt. Eden,
Auckland 3, NEW ZEALAND
TEL: (09) 3098 715

CENTRAL/LATIN AMERICA

ARGENTINA

Instrumentos Musicales S.A.
Florida 656 2nd Floor
Office Number 206A
Buenos Aires
ARGENTINA, CP1005
TEL: (54-11) 4-393-6057

BRAZIL

Roland Brasil Ltda.
R. Cornmel Octaviano da Silveira
203 05522-010
Sao Paulo BRAZIL
TEL: (011) 3743 9377

CHILE

Comercial Fancy S.A.
Avenida Rancagua #0330
Providencia Santiago, CHILE
TEL: 56-2-373-9100

EL SALVADOR

OMNI MUSIC
75 Avenida Notre y Alameda
Juan Pablo 2 No. 4010
San Salvador, EL SALVADOR
TEL: (503) 262-0788

MEXICO

Casa Veerkamp, s.a. de c.v.
Av. Toluca No. 323 Col. Olivar de los Padres 01780 Mexico D.F.
MEXICO
TEL: (525) 668 04 80

La Casa Wagner de Guadalajara s.a. de c.v.
Av. Corona No. 282 S J
Guadalajara, Jalisco Mexico
C.P. 44100 MEXICO
TEL: (31) 613 1414

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Productos Superiores, S.A.
Apartado 655 - Panama 1
REP. DE PANAMA
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Cuacirin 1488, Montevideo,
URUGUAY
TEL: 5982-924-2335

VENEZUELA

Musiland Digital C.A.
Av. Francisco de Miranda,
Centro Parque de Cristal, Nivel
C2 Local 20 Caracas
VENEZUELA
TEL: (02) 285 9218

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Roland Austria GES.M.B.H.
Siemensstrasse 4, P.O. Box 74,
A-6063 RUM, AUSTRIA
TEL: (0512) 26 44 260

BELGIUM/HOLLAND/LUXEMBOURG

Roland Benelux N. V.
Houtstraat 3 B-2260 Cleveel
(Westerlo) BELGIUM
TEL: (014) 575811

DENMARK

Roland Scandinavia A/S
Nordhavnsvej 7, Postboks 880
DK-2100 Copenhagen
DENMARK
TEL: (039) 16 6200

FRANCE

Roland France SA
4, Rue Paul Henri SPAACK
Parc de l'Esplanade F 77 462 St.
Thibault Lagny Cedex FRANCE
TEL: 01 600 73 500

FINLAND

Roland Scandinavia As, Filial Finland
Lauttasaarentie 54 B
Fin-00201 Helsinki, FINLAND
TEL: (9) 682 4020

GERMANY

Roland Elektronische Musikinstrumente Handelsgesellschaft mbH.
Oshtrasse 96, 22844 Nordenstedt,
GERMANY
TEL: (040) 52 60090

GREECE

STOLLAS S.A.
Music Sound Light
135, New National Road
26422 Palras, GREECE
TEL: 061-435400

HUNGARY

Intermusica Ltd.
Warehouse Area "DEPO" Pf.83
H-2046 Torokbalint, HUNGARY
TEL: (23) 511011

IRELAND

Roland Ireland
Audio House, Belmont Court,
Donnybrook, Dublin 4,
Republic of IRELAND
TEL: (01) 2603501

ITALY

Roland Italy S. p. A.
Viale delle Industrie 8
20020 Arese Milano, ITALY
TEL: (02) 937-78300

NORWAY

Roland Scandinavia Avd. Kontor Norge
Lilleakerveien 2 Postboks 95
Lilleaker N-0216 Oslo
NORWAY
TEL: 273 0074

POLAND

P. F. H. Brzostowicz
UL. Gibraltarska 4,
PL-03664 Warszawa POLAND
TEL: (022) 679 44 19

PORTUGAL

Tecnologias Musica e Audio, Roland Portugal, S.A.
RUA SANTA CATARINA
131 - 4000 Porto-PORTUGAL
TEL: (02) 208 44 56

ROMANIA

FBS LINES
Piata Libertatii 1,
RO-4200 Cheorgheni
TEL: (066) 164-609

RUSSIA

Siam Music Company
Sadovaya-Triumfalnaya st., 16
103006 Moscow, RUSSIA
TEL: 095 209 2193

SPAIN

Roland Electronics de España, S. A.
Calle Bolivia 239 08020 Barcelona,
SPAIN
TEL: (93) 308 1000

SWEDEN

Roland Scandinavia A/S SWEDISH SALES OFFICE
Danvik Center 28, 2 tr.
S-131 30 Nacka SWEDEN
TEL: (08) 702 0020

SWITZERLAND

Roland (Switzerland) AG Musitronic AG
Gerbenstrasse 5, CH-4110 Liestal,
SWITZERLAND
TEL: (061) 921 1615

UKRAINE

TIC-TAC
Mira Str. 19/108
P.O. Box 180
295400 Munkachovo, UKRAINE
TEL: (03131) 414-40

UNITED KINGDOM

Roland (U.K.) Ltd.
Atlantic Close, Swarosa
Enterprise Park SWANSEA
SA7 9F,
UNITED KINGDOM
TEL: (01792) 700139

MIDDLE EAST

BAHRAIN

Moon Stores
Bab Al Bahrain Road,
P.O. Box 20077
State of BAHRAIN
TEL: 211 005

CYPRUS

Radex Sound Equipment Ltd.
17 Diagonou St., P.O. Box 2046,
Nicosia CYPRUS
TEL: (02) 453 426

ISRAEL

Halilit P. Greenspoon & Sons Ltd.
8 Retzif Fa'aliya Hashmya St.
Tel-Aviv-Yahso ISRAEL
TEL: (03) 6823666

JORDAN

AMMAN Trading Agency
Prince Mohammed St. P.O. Box
825 Amman 11118 JORDAN
TEL: (06) 4641200

KUWAIT

Easa Husain Al-Yousifi
P.O. Box 126 Safat 13002
KUWAIT
TEL: 5719499

LEBANON

A. Chahine & Fils
P.O. Box 16-5857 Gergi Zeidan St.
Chahine Building, Achraheh
Beirut, LEBANON
TEL: (011) 335799

OMAN

OHI Electronics & Trading Co. LLC
P.O. Box 889 Muscat
Sultanate of OMAN
TEL: 959085

QATAR

Badie Studio & Stores
P.O. Box 62,
DOHA QATAR
TEL: 423554

SAUDI ARABIA

aDawlah Universal Electronics APL
P.O. Box 2154 ALKHOBAR 31952,
SAUDI ARABIA
TEL: (03) 898 2081

SYRIA

Technical Light & Sound Center
Khaled Ibn Al Walid St.
P.O. Box 13520
Damascus - SYRIA
TEL: (011) 2235 384

TURKEY

Berkat Muzik aletleri ithalat ve ihracat limited ireketi
Siraselviler Cad. Billurcu Sok.
Mucadelle Cikmezi No. 11-13
Taksim, Istanbul, TURKEY
TEL: (0212) 2499324

U.A.E.

Zak Electronics & Musical Instruments Co.
Zabeel Road, Al Sherooq Bldg.,
No. 14, Grand Floor DUBAI
U.A.E.
P.O. Box 8090 DUBAI, U.A.E.
TEL: (04) 360715

NORTH AMERICA

CANADA

Roland Canada Music Ltd. (Head Office)
5480 Parkwood Way Richmond
B. C., V6V 2M4 CANADA
TEL: (604) 270 6626

Roland Canada Music Ltd. (Toronto Office)

Unit 2, 109 Woodbine Downs
Blvd, Etobicoke, ON
M9W 4Y1 CANADA
TEL: (0416) 213 9707

U. S. A.

Roland Corporation U.S.
5100 S. Eastern Avenue
Los Angeles, CA 90040-2938,
U. S. A.
TEL: (323) 890 3700

Input Jacks

You can use audio cables (sold separately) to connect another audio producing device to the HP 137, and hear its sound through the speakers of the HP 137.

Making the connections

Note: To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.

1. Turn the volume down completely on all equipment.
2. Turn off the HP 137 and any other devices to be connected.
3. Use audio cables (sold separately) to connect the other device to the HP 137.

Note: If the device you are connecting is monaural, connect it to the L (Mono) jack. In this case, connect nothing to the R jack of the HP 137.

Once the connections have been completed, turn on power to your various devices in the order specified below. By turning on devices in the wrong order, you risk causing malfunction and/or damage to speakers and other devices.

Listening to the sound of an audio device through the speakers of HP 137

1. Turn on the power to the connected equipment.
2. Turn on the power to the HP 137.
3. Adjust the volume.

Using an external amplifier or recording your music with an audio device

Connect one of the headphone sockets to the inputs (AUX, LINE IN) of an external amplifier, etc. This requires the use of an optional breakout cable (stereo 1/4" jack → 2x RCA jacks, or 2 x 1/4" mono jacks, depending on the input types of the external device).

[Note: this switches off the HP 137's speakers.]

Prises Input

Utilisez des câbles audio (vendus séparément) pour brancher un autre appareil audio à l'HP 137 et l'écouter via les enceintes de l'HP 137.

Réalisation des connexions

Remarque: Pour éviter tout dysfonctionnement et/ou dommage aux enceintes et aux autres appareils, réglez toujours le volume au minimum et coupez l'alimentation de tous les appareils avant d'effectuer des connexions.

1. Réglez le volume de tous les appareils concernés au minimum.
2. Coupez l'alimentation de l'HP 137 et de l'appareil à brancher.
3. Utilisez des câbles audio (vendus séparément) pour brancher l'appareil externe à l'HP 137.

Remarque: Si vous branchez un appareil mono, utilisez l'entrée L (Mono). Dans ce cas, la prise R de l'HP 137 doit rester inutilisée.

Une fois les connexions établies, mettez les divers appareils sous tension selon l'ordre indiqué plus bas. Si vous ne respectez pas cette séquence, vous risquez de créer des dysfonctionnements et d'endommager les enceintes et les autres appareils.

Écouter le son d'un appareil audio via les enceintes de l'HP 137

1. Mettez le matériel branché sous tension.
2. Mettez l'HP 137 sous tension.
3. Réglez le volume.

Utilisation d'un ampli externe ou enregistrement sur un appareil audio

Reliez une des prises pour casque aux entrées (AUX, LINE IN) d'un amplificateur externe ou autre. Il vous faut à cet effet un câble spécial en "Y", disponible en option (jack 1/4" stéréo → 2x fiches RCA/Cinch ou 2 x jacks 1/4" mono, selon le type d'entrée de l'appareil externe). [Remarque: cette installation coupe les enceintes du HP 137.]

Input-Buchsen

Schließen Sie diese Buchsen mit Audiokabeln an die Ausgänge einer externen Signalquelle an. Das Instrument oder Gerät wird dann ebenfalls über die Lautsprecher des HP 137 verstärkt.

Herstellen der Anschlüsse

Achtung: Um weder die Lautsprecher noch das externe Gerät zu beschädigen, sollten Sie die Lautstärke immer auf den Mindestwert stellen und alle Geräte ausschalten, bevor Sie sie miteinander verbinden.

1. Stellen Sie die Lautstärke aller Geräte auf den Mindestwert.
2. Schalten Sie das HP 137 sowie das anzuschließende Gerät aus.
3. Verbinden Sie das Gerät über (optionale) Audiokabel mit dem HP 137.

Achtung: Wenn das externe Gerät mono ist, müssen Sie es mit der L (Mono)-Buchse verbinden. Schließen Sie dann nichts an die R-Buchse des HP 137 an.

Nach Herstellen der Anschlüsse können Sie die Geräte in der unten erwähnten Reihenfolge einschalten. Wenn Sie diese Reihenfolge nicht einhalten, könnten Sie die Lautsprecher oder das externe Gerät beschädigen.

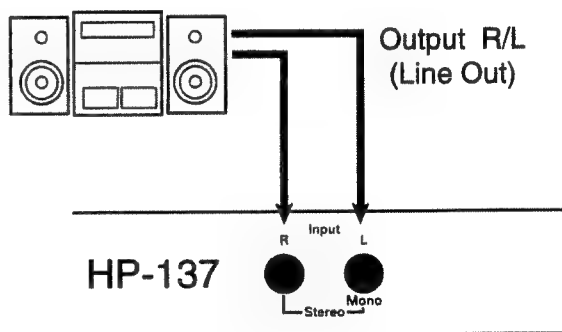
Verstärken eines externen Gerätes mit dem HP 137

1. Schalten Sie die externe Signalquelle ein.
2. Schalten Sie das HP 137 ein.
3. Stellen Sie die Lautstärke ein.

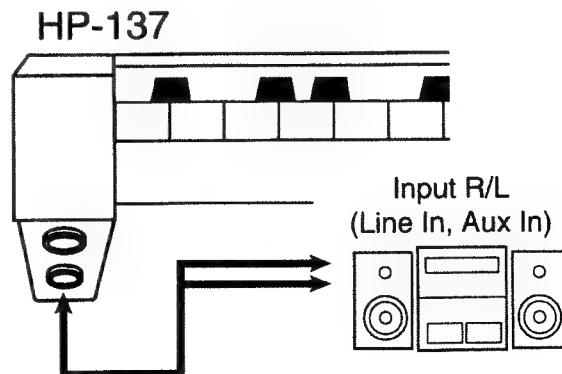
Verwendung eines externen Verstärkers oder Aufnahme mit einem Audiogerät

Verbinden Sie eine Kopfhörerbuchse mit den Eingängen (AUX, LINE IN) des externen Verstärkers usw. Hierfür brauchen Sie ein optionales Kabel (Stereo 1/4"-Klinke → 2x RCA-Stecker, oder 2 x 1/4" Mono-Klinke, je nach dem Anschlußtyp des externen Gerätes). [Achtung: Dabei werden die Lautsprecher des HP 137 ausgeschaltet.]

Input



Output



Prese Input

Potete usare cavi audio (opzionali) per collegare un dispositivo audio all'HP 137, ed ascoltare il suono attraverso gli altoparlanti dell'HP 137.

Effettuare i Collegamenti

Nota: Per prevenire malfunzionamenti e/o danni agli speaker o altri dispositivi, abbassate completamente il volume, e spegnete tutti i dispositivi prima di effettuare qualsiasi collegamento.

1. Abbassate completamente il volume su tutti i dispositivi.
2. Spegnete l'HP 137 e tutti gli altri dispositivi che devono essere collegati.
3. Usate cavi audio (opzionali) per collegare gli altri dispositivi all'HP 137.

Nota: Se il dispositivo che state collegando è mono, collegatelo all'ingresso L (Mono). In questo caso non collegate niente all'ingresso R dell'HP 137.

Una volta che il collegamento è stato effettuato, accendete tutti i dispositivi collegati nell'ordine specificato di seguito. Accendendo i dispositivi nell'ordine sbagliato potrebbe causare danni alle apparecchiature.

Ascoltare il suono di un dispositivo audio attraverso gli speakers dell'HP 137

1. Accendete i dispositivi collegati.
2. Accendete l'HP 137.
3. Regolate il volume.

Usare un amplificatore esterno o registrare la vostra musica su un registratore audio.

Collegate una delle prese cuffia agli ingressi(AUX, LINE IN) di un amplificatore esterno, etc. Utilizzate un cavo (opzionale) (stereo 1/4" jack → 2x RCA jacks, o 2 x 1/4" jacks mono , in base al tipo di dispositivo esterno usato). [Nota: questa operazione disattiva gli altoparlanti interni dell'HP 137.]

Jacks de Entrada (Input)

Puede utilizar cables de audio (se venden por separado) para conectar otro aparato productor de audio al HP 137 y escuchar el sonido a través de los altavoces del HP 137.

Realizar las conexiones

Nota: Para evitar un mal funcionamiento y/o daños en los altavoces, baje siempre el volumen y desactive todos los aparatos antes de realizar cualquier conexión.

1. Baje el volumen de todos los equipos al mínimo.
2. Desactive el HP 137 y los otros aparatos que conectará.
3. Utilice cables de audio (se venden por separado) para conectar el otro aparato al HP 137.

Nota: Si el aparato que conecta es monoaural, conéctelo en el jack L (Mono). En este caso, no conecte nada en el jack R del HP 137.

Cuando haya realizado las conexiones, active los diferentes aparatos en el orden especificado a continuación. Si activa los aparatos en un orden incorrecto, puede provocar un mal funcionamiento y/o daños en los altavoces u otros aparatos

Escuchar el sonido de un aparato de audio a través de los altavoces del HP 137

1. Active los equipos conectados.
2. Active el HP 137.
3. Ajuste el volumen.

Utilizar un amplificador externo o grabar la música con un aparato de audio.

Conecte cualquiera de los dos jacks de auriculares a las entradas (AUX, LINE IN) de un amplificador, etc... Utilice cables de audio (se venden por separado) (stereo 1/4" jack → 2x RCA jacks, o 2 x 1/4" jacks mono). [Nota: Cuando se conecta el cable en el jack de auriculares, se desactivan los altavoces del HP 137.]

Input-connectors

Verbind deze aansluitingen d.m.v. audiokabels met de uitgangen van een externe signaalbron. Het instrument of apparaat in kwestie wordt dan eveneens via de luidsprekers van de HP 137 versterkt.

Aansluitingen

Opgelet: Om noch de luidsprekers, noch het externe apparaat te beschadigen, moet u het volume eerst op de minimumwaarde zetten en alle apparaten uitschakelen voordat u ze op elkaar aansluit.

1. Zet het volume van alle betrokken apparaten op de minimumwaarde.
2. Schakel de HP 137 en het aan te sluiten apparaat uit.
3. Gebruik een (optionele) audiokabel om de HP 137 met het andere apparaat te verbinden.

Opgelet: Als het externe apparaat mono is, moet u het op de L (Mono)-connector aansluiten. Sluit dan echter niets aan op de R-connector van de HP 137.

Zodra alle apparaten op elkaar zijn aangesloten, kunt u ze in onderstaande volgorde inschakelen. Als u deze volgorde niet hanteert, kunt u de luidsprekers of het externe apparaat beschadigen.

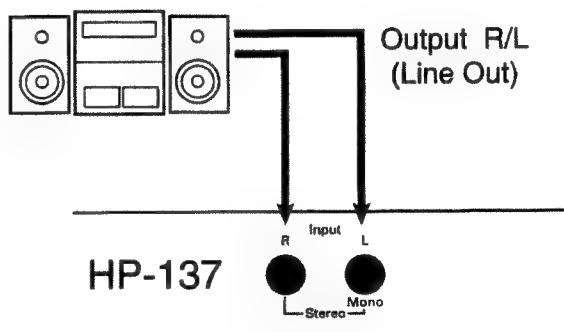
Extern apparaat versterken via de HP 137

1. Schakel de externe signaalbron in.
2. Schakel de HP 137 in.
3. Regel het volume.

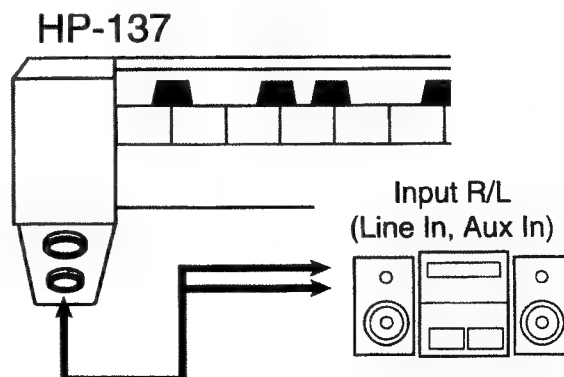
Gebruik van een externe versterker of opnemen met een audio-apparaat

Verbind één van de hoofdtelefoonaansluitingen met de ingangen (AUX, LINE IN) van de externe versterker e.d. Hiervoor hebt u een optionele kabel nodig (stereo 1/4"-jack & 2x RCA-connectors, of 2 x 1/4" mono-jacks, naar gelang het ingangstype van het externe apparaat). [Opgelet: De luidsprekers van de HP 137 worden dan uitgeschakeld.]

Input



Output



For E.C. Countries

This product complies with EC directives

- LOW VOLTAGE 73/23
- EMC 89/336"

Dieses instrument entspricht folgenden EG-Verordnungen:

- NIEDRIGE SPANNUNG 73/23
- EMC 89/336"

Cet instrument est conforme aux directives CE suivantes:

- BASSE TENSION 73/23
- EMC 89/336"



Questo prodotto é conforme alle seguenti direttive CEE

- BASSA TENSIONE 73/23
- EMC 89/336"

Dit instrument beantwoordt aan de volgende EG richtlijnen:

- LAGE SPANNING 73/23
- EMC 89/336"

Este producto cumple con las siguientes directrices de la CE

- BAJO VOLTAJE 73/23
- EMC 89/336"

For the USA

FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Unauthorized changes or modification to this system can void the users authority to operate this equipment.
This equipment requires shielded interface cables in order to meet FCC class B Limit.

For Canada

CLASS B

NOTICE

This digital apparatus does not exceed the Class B limits for radio noise emissions set out in the Radio Interference Regulations of the Canadian Department of Communications.

CLASS B

AVIS

Cet appareil numérique ne dépasse pas les limites de la classe B au niveau des émissions de bruits radioélectriques fixés dans le Règlement des signaux parasites par le ministère canadien des Communications.

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